

DDR3 NVDIMM

SMART has developed a family of NVDIMMs targeted for RAID storage applications. During normal operation, the NVDIMM will function as a standard RDIMM module, but during a system power interruption, the NVDIMM backs up the DRAM contents into on-board Flash with no need for batteries. When the power is restored, the contents of the Flash are transferred back into the DRAM with no loss of critical data.

Application

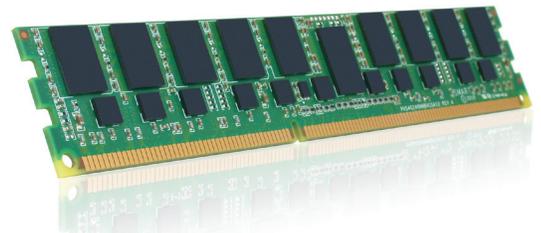
- Nonvolatile cache backup for RAID storage systems

Benefits

- Eliminates need for batteries and their associated issues (cost, maintenance, environmental, etc)
- Eliminates need to maintain a duplicate cache memory subsystem separate from main memory
- Simplifies memory system design
- Allows for increased cache backup size
- Saves costs and space

Key Features & Specs

- Fits standard 240-pin & 244-pin form factors
- During normal operation, NVDIMM will function as a standard RDIMM module (supports JEDEC standard SPD Data)
- System upon power-loss, must place the DRAM in self-refresh operation (in current design offering)
- Backup initiated using either side-band signals or I2C interface
- Greater than 10 year life span operating at 70°C ambient temperature.



With SMART's *SafeStor™* Technology

DDR3 NVDIMM

DDR3 NVDIMM - Ordering Information

SMART Part Number	Density	Height (in)	Module Config	Device Config	Speed	Voltage
SH1027NV351816HD/SD	8GB	1.18	1G x72	512M x8	1600 MT/s	1.35V
SH5127NR351893SDV	4GB	0.94	512M x72	512M x8	1333 MT/s	1.5V



NVDIMM (24mm)

DDR3 Mini-NVDIMM - Ordering Information

SMART Part Number	Density	Height (in)	Module Config	Device Config	Speed	Voltage
SH2567MN325893SF	2GB	1.18	256M x72	256M x8	1333 MT/s	1.35V



Mini-NVDIMM

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